## MEMBRANE SEPARATION APPARATUS

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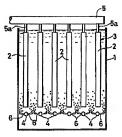
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## Abstract of JP10033955

PROBLEM TO BE SOLVED: To prevent the clogging of the air diffusion port of an air diffusion pipe end to disperse eir bubbles blown out of the air diffusion port throughout a liquid. SOLUTION: A membrane separation apparatus is equipped with a mambrane separation tank 1, a filter membrane unit 3 consisting of a lerge number of vartical hollow yam flet mambrane modules 2 arranged mutually perallel so as to leave intervals between them end arranged in the membrane separation tank 1 and a plurality of air diffusion pipes 4 arranged under the filter membrane units 2 in the membrana separation tank 1. The air diffusion pipes 4 are arranged mutually parallel so es to provide intervals therebatween. A plurality of lateral eir diffusion ports era formed to both sida parts of the pipe wall of each of the air diffusion pipes 4 so as to provide intervals in the length direction of the eir diffusion pipa. The air diffusion ports 6 of

the edjacent pipes 4 are mutually opposed.



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